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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/776,677	02/06/2001	Kesatoshi Takeuchi	202498US2CONT	2900
22850	7590 07/30/2003			
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			KUMAR, SRILAKSHMI K	
		•	ART UNIT	PAPER NUMBER
			2675	16
			DATE MAILED: 07/30/2003	(0

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	(Applicant/s)				
	Application No.	Applicant(s)				
Office Action Summany	09/776,677	TAKEUCHI, KESATOSHI				
Office Action Summary	Examiner	Art Unit				
The MAN INCORP. (4)	Srilakshmi K. Kumar	2675				
- The MAILING DATE of this communication Period for Reply	n appears on the cover sneet wi	un the correspondence address -				
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to the second of the second	ON. FR 1.136(a). In no event, however, may a roon. a reply within the statutory minimum of third beriod will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	16 April 2003 and 16 May 200	<u>03</u> .				
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) 1-21 is/are pending in the applic	ation.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers	·					
9) The specification is objected to by the Exar	miner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1.☐ Certified copies of the priority docur	ments have been received.					
2. Certified copies of the priority docur	ments have been received in A	pplication No				
3. Copies of the certified copies of the application from the Internationation application from the Internation for a second section for a second second section for a second second second second second second second sec	al Bureau (PCT Rule 17.2(a)).	·				
14) Acknowledgment is made of a claim for don	•					
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dor	e provisional application has b	een received.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-946) 3) Information Disclosure Statement(s) (PTO-1449) Paper No.	8) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .				
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office	ce Action Summary	Part of Paper No. 16				

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DETAILED ACTION

The following office action is in response to Amendment A and RCE, filed April 16, 2003 and May 16, 2003, respectively. Claims 1, 6, 9, 12, 14 and 19 have been amended. Pending claims are 1-21.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higuchi et al. (US 6,160,576) in view of Johnson (US 6,330,038).

As to dependent claims 1, 9 and 14, Higuchi et al disclose an image display apparatus, comprising: an image display device configured to display an image (Fig. 1, item 1); a setting section (Fig. 1, item 14) configured to allow a user to directly set image quality adjustment excluding contrast and brightness adjustments of the image; and an image processing section (Fig. 1, items 30, 40 & 50) configured to perform the image quality adjustment of the image according to the setting made by the user, and to perform contrast compensation to maintain a brightness at a center of a specific color region larger than a predetermined size within the image displayed by the image display device, regardless of the setting of the image quality adjustment (col. 5, lines 8-54, col. 5, line 63-col. 6, line 6). Higuchi et al do not disclose where the specific color region larger that a predetermined size. Higuchi et al do disclose where the radius of the area is varied as the first image enhancer 34 is used to sharpen the blur caused by defocus or age

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related decline in focus (col. 11, line 49-col. 13, line 27). It would have been obvious to one of ordinary skill in the art that the specific color region larger than a predetermined size is shown by the system of Higuchi et al as stated above with the sharpening of the blur or defocus of the picture. This feature is advantageous as it enhances aged images to show a more refined and sharpened image. Higuchi et al do not disclose where the setting section (Fig. 1, item 14) is configured to allow a user to directly set image quality adjustment excluding contrast and brightness adjustments of the image.

Johnson discloses a video sharpness control device for a display. Johnson discloses in Fig. 7A and in col. 9, lines 29-43, where the sharpness may be set by the user separately from the brightness and contrast, so that the brightness can be maintained. It would have been obvious to one of ordinary skill in the art to combine the systems of Higuchi et al with that of Johnson as they both disclose displays with setting controls. The system of Johnson is advantageous as it enhances the video image by allowing the user to set controls separately.

As to dependent claims 6, 12 and 19, limitations of claim 1, 9 and 14, and further comprising, Higuchi et al disclose an image processing device, comprising: an image filter configured to perform filter processing of an image by using a selected one of a plurality of filters with different frequency characteristics (col. 6, lines 25-60); and a contrast compensation section configured to perform contrast compensation using a contrast compensation value, related to the selected filter, to maintain a brightness at a center of a specific color region larger than a predetermined size within an image that has undergone the filter processing, regardless of which filter is selected from the plurality of filters (col. 5, lines 8-54, col. 6, lines 25-60). Higuchi et al do not disclose where the specific color region larger that a predetermined size.

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Higuchi et al do disclose where the radius of the area is varied as the first image enhancer 34 is used to sharpen the blur caused by defocus or age related decline in focus (col. 11, line 49-col. 13, line 27). It would have been obvious to one of ordinary skill in the art that the specific color region larger than a predetermined size is shown by the system of Higuchi et al as stated above with the sharpening of the blur or defocus of the picture. This feature is advantageous as it enhances aged images to show a more refined and sharpened image.

As to dependent claims 2 and 15, limitations of claims 1 and 14, and further comprising, wherein the image quality adjustment is a sharpness adjustment (col. 11, line 49-col. 13, line 27).

As to dependent claims 3, 7, and 16, limitations of claims 1, 6, and 14, and further comprising, wherein the specific color is white. Although Higuchi et al do not disclose where the specific color is white, it would have been obvious to one of ordinary skill in the art that the specific color could have been white as the image could have been one where there is no color and further a combination of R/G/B yields white and is advantageous as the image would have been brighter.

As to dependent claims 4, 10 and 17, limitations of claims 1, 9 and 14, and further comprising, wherein the image processing section includes:

an image filter configured to perform the image quality adjustment by selecting one of a plurality of filters with different frequency characteristics according to the setting of the image quality adjustment, and to perform filter processing on the image using the selected filter (col. 6, lines 25-60); and

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a contrast compensation section configured to perform the contrast compensation upon the image that has undergone the filter processing, using a contrast compensation value related to the selected filter (Fig. 1, item 33, col. 6, lines 25-60).

As to dependent claims 5, 8, 11, 13, and 18, limitations of claims 4, 6, 9, 12, and 17, and further comprising, contrast adjustment section configured to perform contrast adjustment of the image independently of the contrast compensation section (Fig. 1 items 34 and 35, col. 11, line 49-col. 13, line 27).

As to dependent claim 20, see claims 3, 7 and 16, above.

As to dependent claim 21, see claims 5, 8, 11, 13, and 18, above.

Response to Arguments

3. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Srilakshmi K. Kumar whose telephone number is (703) 306 5575.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Saras, can be reached at (703) 305-9720.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

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(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA,

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Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Technology Center 2600 Customer Service Office

whose telephone number is (703) 306-0377.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Srilakshmi K. Kumar whose telephone number is 703 306 5575.

The examiner can normally be reached on 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Steven J. Saras can be reached on 703 305 9720. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 872 9314 for regular

communications and 703 308 9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 305 4700.

Srilakshmi K. Kumar

Examiner

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SKK

July 25, 2003

TECHNOLOGY CENTER 2600